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DAVID S. ROSENZWEIG  
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May 18, 2004

Mary Cottrell, Secretary  
Department of Telecommunications and Energy  
One South Station, 2<sup>nd</sup> Floor  
Boston, Massachusetts 02110

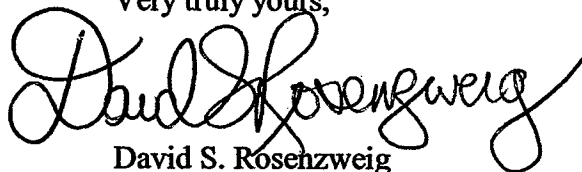
Re: NSTAR Electric, D.T.E. 03-121

Dear Secretary Cottrell:

Enclosed for filing in the above-referenced matter is an original and nine (9) copies of NSTAR Electric's responses to the Record Requests on the accompanying list.

Thank you for your attention to this matter.

Very truly yours,

A handwritten signature in black ink, reading "David S. Rosenzweig". The signature is fluid and cursive, with the first name "David" being particularly prominent.

David S. Rosenzweig

Enclosures

cc: William Stevens, Hearing Officer  
John-Cope Flanagan, Hearing Officer  
Service List

## Response to Record Requests

Record Request DTE-17  
Record Request DTE-18  
Record Request DTE-20  
Record Request DTE-21  
Record Request DTE-23  
Record Request DTE-24  
Record Request DTE-25  
Record Request DTE-26  
Record Request DTE-27  
Record Request DTE-28  
Record Request TEC-4  
Record Request TEC-5

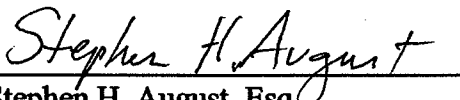
**COMMONWEALTH OF MASSACHUSETTS  
DEPARTMENT OF TELECOMMUNICATIONS AND ENERGY**

_____	)	
Boston Edison Company	)	
Cambridge Electric Light Company	)	
Commonwealth Electric Company	)	
d/b/a NSTAR Electric	)	
_____	)	

D.T.E. 03-121

**CERTIFICATE OF SERVICE**

I certify that I have this day served the foregoing documents upon the service list in the above-docketed proceeding in accordance with the requirements of 220 C.M.R. 1.05.

  
\_\_\_\_\_  
Stephen H. August, Esq.  
Keegan, Werlin & Pabian, LLP  
265 Franklin Street  
Boston, MA 02110  
(617) 951-1400

Dated: May 18, 2004

Record Request DTE-17 (Tr. 7, at 1362)

- (a) Please provide sample tariff language that indicates that non-firm standby service may be available through contract negotiations with the Company.
- (b) Provide a standard-form interruptible contract for nonfirm standby customers.

Response

- (a) Please see the following sample standby tariff language:

**Non-Firm Service:**

The Company may provide non-firm standby service upon request by the Customer under terms of a separate contract. The contract will set forth the precise terms of interruption on a case-by-case basis taking into account the precise operational configuration of the Customer and the distribution feeder servicing the Customer. Generally, the Company will provide non-firm standby distribution service at the request of the Customer to the extent that local distribution capacity is available to serve the Customer when its generation facilities are not available. Should local distribution capacity become unavailable to serve the Customer's standby load, the Company will require the Customer to interrupt its standby load.

Under such contract for non-firm service, the Company would bill the Customer the monthly standby customer charge monthly and the demand and energy charges under the otherwise applicable rate schedule on an "as-used" basis for any distribution service actually taken.

- (b) Please see the Attachment RR-DTE-17(b).

## AGREEMENT FOR NON-FIRM STANDBY SERVICE

This Agreement made effective made this \_\_\_\_ day of \_\_\_\_\_, 200\_, by and between \_\_\_\_\_ d/b/a NSTAR Electric, a Massachusetts distribution company organized pursuant to G.L. c. 164, § 1, having a principal place of business at 800 Boylston Street, Boston, MA 02199 ("NSTAR Electric" or the "Company") and \_\_\_\_\_, a \_\_\_\_\_ corporation, having a principal place of business at \_\_\_\_\_ (the "Customer"). The Company and the Customer are also individually referred to herein as a "Party" or collectively as "Parties".

WHEREAS, NSTAR Electric provides exclusive electric distribution services in the City of \_\_\_\_\_, Massachusetts; and

WHEREAS, the Customer intends to construct and operate an electric generating facility ("On-Site Generation Facility") at \_\_\_\_\_, \_\_\_\_\_, MA, which will generate electricity for use by the Customer; and

WHEREAS, the Customer desires to have the Company provide standby distribution service on an interruptible or non-firm basis;

NOW, THEREFORE, in consideration of the covenants and agreements set forth herein, the Customer and NSTAR Electric agree as follows:

### ARTICLE I DESCRIPTION OF SERVICE

- 1.1 NSTAR Electric agrees, subject to the terms and conditions set forth in this Agreement, to provide the Customer with Non-Firm Standby Service (as defined in Section 1.2 and 1.3, below) on a best-efforts basis. Service under this Agreement will be provided at the \_\_\_\_ kilovolt ("kV") voltage level to provide non-firm distribution service to the Customer when the On-Site Generation Facility is out of service.
- 1.2 Non-Firm Standby Service provides the Customer with non-firm distribution service to provide delivery of electricity supply to replace the portion of the Customer's internal electric load normally supplied by the On-Site Generation Facility.
- 1.3 Non-Firm Standby Service obligates the Company to provide distribution service at the request of the Customer only to the extent that distribution capacity is available to serve the Customer when its generation facilities are not available. The Company may, at its sole discretion, curtail or interrupt the delivery of the distribution service to the Customer at any time, in whole or in part. [INSERT

**TERMS OF OPERATIONAL PROVISIONS THAT ENABLE NSTAR  
ELECTRIC TO INTERRUPT SERVICE.]**

**ARTICLE II  
TERM**

- 2.1 This Agreement shall become effective upon the date upon which the Massachusetts Department of Telecommunications and Energy (the "Department") approves the Agreement as set forth in Article 6.9 hereof. The Agreement shall continue for an initial term of one year and thereafter until terminated by the giving of six (6) months prior written notice of termination by one party to the other.
- 2.2 Notwithstanding the foregoing, the Parties agree to abide by all terms of this Agreement until all transactions outstanding at the time of termination are completed, including but not limited to, the payment by Customer to the Company of any and all outstanding balances.
- 2.3 Notwithstanding anything to the contrary elsewhere in this Agreement or in the Terms and Conditions, any Party, by written notice to the other Party (the "Breaching Party"), may terminate this Agreement, in whole or in part, with respect to such Breaching Party or suspend further performance without terminating this Agreement upon the occurrence of any of the following: (a) the Breaching Party terminates or suspends doing business; (b) the Breaching Party becomes subject to any bankruptcy or insolvency proceeding under federal or state law (unless removed or dismissed within sixty (60) days from the filing thereof), or becomes insolvent, becomes subject to direct control of a transferee, receiver or similar authority, or makes an assignment for the benefit of creditors; or (c) the Breaching Party commits a material breach of any of its obligations under this Agreement or the Terms and Conditions; provided however, that any such breach occurring hereunder may be cured within fifteen (15) days after receipt of a written notice from the other party specifying the nature of such breach.
- 2.4 No delay by either party in enforcing any of its rights hereunder shall be deemed a waiver of such rights, nor shall a waiver of one default be deemed a waiver of any other or subsequent default.
- 2.5 The enumeration of the foregoing remedies shall not be deemed a waiver of any other remedies to which either party is legally entitled.

ARTICLE III  
RATES AND CHARGES

- 3.1 Non-Firm Standby Service shall be provided hereunder based upon NSTAR Electric's General Service Rate [INSERT APPLICABLE RATE]. In accordance therewith, the following rates and charges shall apply:

- |    |                            |                        |
|----|----------------------------|------------------------|
| A. | Customer Charge:           | As currently in effect |
| B. | Distribution Charge:       | As currently in effect |
| C. | Transmission Charge        | As currently in effect |
| D. | Transition Charge          | As currently in effect |
| E. | Energy Efficiency Charge   | As currently in effect |
| F. | Renewable Energy Charge    | As currently in effect |
| G. | Default Service Adjustment | As currently in effect |
| H. | Pension/PBOP Adjustment    | As currently in effect |

- 3.2 The Customer charge shall be billed each month.
- 3.3 The kilowatt hours to be billed for shall be the actual kilowatt hours delivered by the Company over its distribution system as recorded on the meters measuring the electricity taken by the Customer.
- 3.4 The demand to be billed is the greatest fifteen-minute demand occurring in the billing month as measured in accordance with the Determination of Demand and Billing provisions of the NSTAR Electric Rate \_\_\_\_.

ARTICLE IV  
BILLING AND PAYMENTS

- 4.1 All bills rendered hereunder are net and payable upon presentation. Any bill not paid within 25 days from the date issued shall be subject to a late payment charge at the rate of one and one-half percent (1.5 percent) per month on the unpaid balance from the date issued until the date of payment.

ARTICLE V  
METERS AND METERING

- 5.1 The Company shall supply, own and maintain the meters and related equipment it deems necessary to measure electricity delivered to the Customer. The Customer agrees to supply suitable locations deemed necessary and appropriate to the Company for the installation of the Company's metering equipment, at no cost to the Company.

- 5.2 In the event that a meter should fail to register the full amount of energy delivered or the maximum demand, the Company may bill the Customer on the basis of its most accurate estimates. Such estimates shall be binding upon both the Company and the Customer.

ARTICLE VI  
MISCELLANEOUS PROVISIONS

- 6.1 This Agreement constitutes the entire agreement between the parties hereto relating to the subject matter hereof, and all previous agreements, discussions, communications and correspondence with respect to the subject matter hereof are superseded by the execution of this Agreement.
- 6.2 This Agreement may not be modified or amended except in writing signed by or on behalf of both parties by their duly authorized officers.
- 6.3 The Company represents that it is and shall remain in compliance with all material laws, tariffs, and Department regulations during the term of this Agreement.
- 6.4 Each person executing this Agreement for the respective Parties represents and warrants that he or she has authority to bind that party.
- 6.5 Each Party represents that (a) it has the full power and authority to execute, deliver, and perform this Agreement; (b) the execution, delivery, and performance of this Agreement have been duly authorized by all necessary corporate or other action by such party; and (c) this Agreement constitutes that party's legal, valid and binding obligation, enforceable against such party in accordance with its terms.
- 6.6 Each Party shall exercise all reasonable care, diligence and good faith in the performance of its duties pursuant to this Agreement, and carry out its duties in accordance with applicable recognized professional standards.
- 6.7 All notices required or permitted under this Agreement shall be in writing, unless otherwise specifically set forth herein, and shall be deemed to have been properly given when delivered personally or deposited in the U.S. mail, first class postage prepaid, return receipt requested, addressed as follows, or to such other person or address as may be designated by a party at any time and from time to time, in accordance herewith:

If to NSTAR Electric: **[fill in appropriate name and address]**

If to the Customer: **[fill in appropriate name and address]**



- 6.8 The interpretation and performance of this Agreement shall be in accordance with and controlled by the laws of the Commonwealth of Massachusetts, without regard to the conflict of laws in effect therein.
- 6.9 This Agreement shall be subject to the review and approval of the Department under applicable Massachusetts statutes and Department regulations. This Agreement shall not be binding and effective on either party unless and until all necessary or appropriate approvals from the Department (and such approvals are no longer subject to appeal), without any conditions or modifications that, in the Company's sole discretion, are unacceptable to the Company.
- 6.10 Except as otherwise provided in this Agreement, the Company's Terms and Conditions, as they are amended from time to time, shall be incorporated by reference to this Agreement.
- 6.11 This Agreement shall inure to the benefit of and bind the respective successors and permitted assigns of the parties hereto; provided, however, that no assignment by the Customer or any successor or assignee of the Customer of its rights and obligations hereunder shall be made or become effective without the prior written consent of the Company in each case obtained.
- 6.12 This Agreement and all rights and obligations of the Parties hereto are subject to all applicable state and federal laws and all duly promulgated orders and duly authorized actions of governmental authorities effectively exerting jurisdiction in the premises.
- 6.13 The Company shall not be responsible for performance hereunder or incur any liability, cost or expense of any kind, including that for personal injury (including death) or property damage, in the event that such performance is prevented, in whole or in part, by any of the following: the statute or regulation or order of any court or public authority having or purporting to have authority over such performance; the loss, diminution or impairment of electric supply from the On-Site Generation Facility or third-party electricity suppliers, or the systems of others with which such third-party suppliers are connected; a break or fault in the Company's transmission or distribution system; by the failure or improper operation of the Company's transformers, switches or other equipment necessary for electric transmission and distribution; or by reason of a storm, flood, fire, earthquake, explosion, civil disturbance, labor dispute or strike, an Act of God or public enemy, or any other cause beyond the reasonable control of the Company. In the event of the occurrence of any of the foregoing, the Company shall use reasonable efforts to overcome such cause and to resume full performance.
- 6.14 The Parties hereto acknowledge and agree that the Company shall not, in any event except that of its own negligent or intentional acts or omissions, be liable to any party for any direct damages, whether arising in tort, contract or otherwise, associated with the performance of its obligations under this Agreement, or with

the exercise of any of its rights as set forth herein. In no event whatsoever will the Company be liable to any party for consequential, indirect or special damages.

- 6.15 The Customer assumes full responsibility for the use of electricity delivered by the Company hereby, and for the condition, suitability, and safety of any and all wires, cables, devices and appurtenances energized or related equipment on the Customer's premises, or owned or controlled by the Customer. The Customer shall indemnify and hold harmless the Company from and against any and all claims or actions of any nature, including such claims or actions for personal injury (including death) or property damage arising directly or indirectly from the operation or presence of the aforementioned wires, cables, devices, appurtenances and related equipment (which are not the property of the Company); or arising directly or indirectly from the failure of the Customer to perform its duties and obligations as set forth in this Agreement; or arising directly or indirectly from the improper use of the electricity or the aforementioned wires, cables, devices and appurtenances or equipment.
- 6.16 Any and all equipment or facilities furnished by the Company hereunder, unless specified otherwise, shall be and remain the property of the Company, and, if placed on the property of the Customer, the Customer shall be responsible for the safekeeping of the same, and further the Customer shall make reasonable efforts to protect the same from damage or interference.
- 6.17 This Agreement may be executed in several counterparts, each of which is an original and all of which constitute one and the same instrument.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed by their respective representatives thereunto duly authorized as of the day and year first above written.

**NSTAR ELECTRIC**

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[name, title]

---

[name, title]

Record Request DTE-18 (Tr. 7, at 1377)

Please provide the historical peak demand for the Moakley Courthouse and a projection of peak demand for the new Convention Center.

Response

The 2003 peak demand for the Moakley Courthouse was 4 MW. The projected peak demand for the new Convention Center is 30 MW.

Record Request DTE-20 (Tr. 7, at 1391-1392)

Please provide cross references to other Information Requests that identify: (1) the peak demand of the circuit to which each DG customer is connected; (2) the non-coincident peak of the station to which the circuit is connected; and (3) the NSTAR Electric system peak.

Response

The circuit and substation to which each listed customer is connected is shown in the response to Record Request DOER-1. The non-coincident peak demand for each circuit is shown in Exhibit JS-NSTAR-1-3, and the non-coincident peak demand of each substation is shown in Attachment NEDGC-2-15. The historical NSTAR Electric system peaks are shown in Attachment NEDGC-1-13(a).

Record Request DTE-21 (Tr. 7, at 1394)

Please provide a calculation similar to that provided in Exhibit TEC-3-11 for a substation where a DG customer is connected during the peak hour for 2003.

Response

The table shown below is for Dewar St. Substation #483. This station has the largest number of circuits with an on-site generation customer on it. The calculation for this station required special processing because there are four supply busses and two transformers. The supply busses are all interconnected. This required a calculation that considered the entire substation load rather than individual transformer-load-based values. Based on the results shown for 2003, the station had a coincidence factor of 98.7 percent.

Station 483 Peak 2003				125,000	6/27/2003	
Bus Section 1				Amps	Volts	kVA
Transformer 110A				0	13.8	0
566-1475H				241	13.8	5,768
483-1493				320	13.8	7,639
511-1495				95	13.8	2,260
483-H5 P1				166		
483-H5 P2				241		
483-H5 P3				233		
483-H5 AVG.				214	13.8	5,103
483-H1				271	13.8	6,476
52-1494H				177	13.8	4,224
				1318	13.8	31,470

Bus Section 2				Amps	Volts	kVA
Transformer 110B				2702	13.7	64,129
483-H4				289	13.7	6,853
67-1484H				104	13.7	2,474
483-H6				299	13.7	7,102
511-1496				131	13.7	3,119
483-1492				266	13.7	6,309
43-1491H P1				233		
43-1491H P2				274		
43-1491H P3				232	13.7	
43-1491H AVG.				246	13.7	5,841
				1336	13.7	31,698

Bus Section 3				Amps	Volts	kVA
Transformer 110B				2702	13.8	64,129
359-1477				143	13.8	3,414
483-H3				256	13.8	6,112
466-1482H P1				397		
466-1482H P2				311		
466-1482H P3				299		
466-1482H AVG.				336	13.8	8,009
511-1497				101	13.8	2,402
43-1490H				176	13.8	4,196
52-1487H P1				320		
52-1487H P2				319		
52-1487H P3				336		
52-1487H AVG.				325	13.8	7,757
				1336	13.8	31,893

Bus Section 4				Amps	Volts	kVA
Transformer 110A				2702	13.9	64,129
466-1481H P1				332	13.9	
466-1481H P2				304		
466-1481H P3				294		
466-1481H AVG.				310	13.9	7,484
43-1489H				229	13.9	5,516
511-1498				80	13.9	1,924
52-1499H				157	13.9	3,791
483-H2				219	13.9	5,291
440-1478H				172	13.9	4,158
				1167		28,183

STATION 483	1.3%	Difference between sum of circuits and load on buses
Bus Section 1	Radials/Xfmr	24986
Bus Section 2	Radials/Xfmr	28579
Bus Section 3	Radials/Xfmr	10308
Bus Section 4	Radials/Xfmr	9306

Record Request DTE-23 (Tr. 7, at 1408)

Provide a revised draft standby tariff provision that identifies under what circumstances a customer's contract demand may be different than the nameplate capacity of its self-generation.

Response

The Company provides the following sample standby tariff language that would be included under the heading "Determination of Kilowatt Demand for billing" on page 2 of each Boston Edison standby tariff: The same provision (without "3") would be included for Cambridge and Commonwealth on page 2 just before the last sentence beginning "If for any reason."

**Changes to Contract Demand:**

- 3) The Company will reduce the Customer's otherwise applicable contract demand to a level equal to the lowest of the following:
  - a. The maximum output of the Customer's generation in the current billing month and the prior eleven billing months; or
  - b. The maximum internal load experienced by the Customer in the current and prior eleven billing months; or
  - c. The mutually agreed-upon normal operating capacity of a combination of generating units for a Customer having multiple independently operated units assuming that one or more of such units is normally held in reserve to backup the operation of units that become unavailable.

NSTAR Electric  
Department of Telecommunications and Energy  
D.T.E. 03-121  
Record Request: **DTE-24**  
May 18, 2004  
Person Responsible: Charles P. Salamone  
Page 1 of 1

Record Request DTE-24 (Tr. 8, at 1417)

Please provide a copy of the NSTAR 2004 transmission and distribution operating study report that was filed with the Department on May 4, 2004 in D.T.E. 01-65.

Response

Please see Attachment RR-DTE-24. Please note that the attachment represents a bulk document and, as such, only two copies are being provided to the Department. A compact diskette containing the relevant files is being supplied to intervening parties in the case.

Record Request DTE-25 (Tr. 8, at 1419)

Please prepare an analysis that compares the percentage of customers' bills that is based on a per/kWh basis before restructuring and under current rates for Rate G-2, T-2 and G-3 for Boston Edison, G-2 and G-3 for Cambridge and G-2 and G-3 for Commonwealth.

Response

Please see Attachment RR-DTE-25.



**NSATR ELECTRIC**  
**Comparison of Fixed to Variable Charges**

**Cambridge Electric**

	Rate G-2		Rate G-3	
	Pre-Rad	January-04	Pre-Rad	January-04
Customer	\$ 318,117	\$ 285,933	\$ 67,988	\$ 61,110
Demand	\$ 11,295,555	\$ 8,716,349	\$ 10,506,397	\$ 6,545,269
Energy	\$ 8,350,297	\$ 4,644,748	\$ 6,208,231	\$ 2,907,619
SubTotal	\$ 19,963,969	\$ 13,647,030	\$ 16,782,616	\$ 9,513,998
FC/GNR	\$ 13,225,907	\$ 19,322,637	\$ 14,727,997	\$ 21,522,288
Total	\$ 33,189,876	\$ 32,969,667	\$ 31,510,613	\$ 31,036,286
	W/FC	W/GNR	W/FC	W/GNR
% Fixed	35.0%	27.3%	33.6%	21.3%
% kWh	65.0%	72.7%	66.4%	78.7%

**Commonwealth Electric**

	Rate G-2		Rate G-3	
	Pre-Rad	January-04	Pre-Rad	January-04
Customer	\$ 1,753,877	\$ 1,578,506	\$ 649,224	\$ 584,218
Demand	\$ 3,716,028	\$ 3,692,132	\$ 4,715,229	\$ 4,706,018
Energy	\$ 10,768,058	\$ 16,764,090	\$ 5,285,971	\$ 10,216,613
SubTotal	\$ 16,237,963	\$ 22,034,728	\$ 10,650,424	\$ 15,506,849
FC/GNR	\$ 28,310,094	\$ 22,214,359	\$ 24,547,681	\$ 19,260,489
Total	\$ 44,548,057	\$ 44,249,087	\$ 35,198,105	\$ 34,767,338
	W/FC	W/GNR	W/FC	W/GNR
% Fixed	12.3%	11.9%	15.2%	15.2%
% kWh	87.7%	88.1%	84.8%	84.8%

**Boston Edison**

	Rate G-2		Rate G-3		Rate T-2	
	Pre-Rad	January-04	Pre-Rad	January-04	Pre-Rad	January-04
Customer	\$ 6,127,025	\$ 5,514,626	\$ 1,409,877	\$ 1,268,799	\$ 2,875,463	\$ 2,587,690
Demand	\$ 89,418,511	\$ 90,251,609	\$ 83,636,191	\$ 84,797,389	\$ 145,892,948	\$ 147,068,673
Energy	\$ 98,611,023	\$ 74,042,765	\$ 64,542,608	\$ 41,583,512	\$ 85,811,768	\$ 57,824,730
SubTotal	\$ 194,156,559	\$ 169,809,000	\$ 149,588,676	\$ 127,649,700	\$ 234,580,179	\$ 207,481,093
FC/GNR	\$ 99,846,342	\$ 121,531,347	\$ 113,440,533	\$ 138,077,975	\$ 137,060,723	\$ 166,828,088
Total	\$ 294,002,901	\$ 291,340,347	\$ 263,029,209	\$ 265,727,675	\$ 371,640,902	\$ 374,309,181
	W/FC	W/GNR	W/FC	W/GNR	W/FC	W/GNR
% Fixed	32.5%	32.9%	32.3%	32.4%	40.0%	40.0%
% kWh	67.5%	67.1%	67.7%	67.6%	60.0%	60.0%

Note: All data from company Annual True-Up Filings (D.T.E. 03-117 & D.T.E. 03-118).

Record Request DTE-26 (Tr. 8, at 1459)

Please provide the RPS costs on dollar-per-certificate or dollar per-megawatthour basis, the costs that the Company has incurred in meeting its standard offer and default-service RPS requirements. Provide a Company projection, if available, of the Company's RPS costs on an ongoing basis.

Response

The RPS obligation for Default Service supply, for Boston Edison, Commonwealth, and Cambridge, is met by the respective suppliers of Default Service. The prices paid for Default Service do not separately identify the costs associated with the RPS. This is also true for the RPS obligations for Standard Offer service supplied to Boston Edison customers, and for a portion (62.4 percent) of the Standard Offer supply for Commonwealth and Cambridge. The remaining 37.6 percent of the Standard Offer supply obligations are supplied under an agreement that predates the RPS guidelines and thus places the RPS obligation directly on NSTAR Electric. In 2003, NSTAR Electric was able to meet that obligation through a variety of sources at an average cost of \$24.51 per MWH per certificate. Although the Company does not calculate a projection of RPS costs, market estimates for 2004 certificates place costs at close to \$45.00 per MWH per certificate.

Record Request DTE-27 (Tr. 8, at 1529)

Referring to Attachment DTE-2-3(b), please describe what the dates listed under the column "Date of Request" indicate concerning the customer and the generator type listed on the same row.

Response

The "Date of Request" refers to the date that the customer's application was received by the Company regarding its intent to interconnect to the distribution system. This attachment represents the current list of customer requests for interconnection. It was not part of the 2002 report to the Department, as suggested during the hearings in this case.

Record Request DTE-28 (Tr. 8, at 1534)

Referring to the 2003 report provided in Attachment DOER-1-1, determine which of the listed customers would have the standby rate apply to them in the absence of grandfathering.

Response

Please see Attachment RR-DTE-28 for a summary of the customers who would be eligible for the proposed rate in the absence of grandfathering. The table excludes customers with generation capacity less than 20 percent of maximum load, except when the generation capacity is greater than 500 kW.

**NSTAR Electric**

**Activities of Qualifying Facilities and On-Site Generating Facilities**  
**Reporting Period: January 1, 2003 through December 31, 2003**

Customer	Facility Type	Energy Source	Installation Date	Online Date	Delivery Method	Design Cap. (kW)	Estimated Annual Run Hrs (1)	Estimated Lost kWh (2)	Annual Max BQ RR-DTE-14	20% Load Threshold
<b><i>Boston Edison Company</i></b>										
1	Cogen 60kW-1 MW	Natural Gas	1989	1989	Contract	810.0	3400	2,754,000	748	Yes
2	Cogen > 1 MW	Diesel	N/A	N/A	Net	1,800.0	900	1,620,000	1830	Yes
3	Cogen 60kW-1 MW	Nat Gas	1984	1985	Net	600.0	8000	4,800,000	512	Yes
4	Cogen 60kW-1 MW	Nat Gas	7/21/2003	7/21/2003	None	250.0	8560	2,140,000	552	Yes
5	Cogen 60kW-1 MW	Natural Gas	1986	1986	Contract	425.0	0	-	238	Yes
6	Cogen 60kW-1 MW	Natural Gas	2001	2001	Net	75.0	7800	585,000	128	Yes
7	Cogen > 1 MW	Dual Fuel	1972	1973	Net	10,000.0	7100	71,000,000	14754	Yes
8	Cogen 60kW-1 MW	Nat Gas	2002	2003	Net	60.0	8322	499,320	104	Yes
9	Cogen 60kW-1 MW	Nat Gas	2002	2003	Net	60.0	8322	499,320	228	Yes

<b><i>Commonwealth Electric</i></b>										
1	Fuel Cell	Nat Gas	7/8/2003	7/8/2003	None	200.0	8760	1,752,000	451	Yes
2	Cogen > 1 MW	Nat Gas	3/1/1993	7/5/1994	Contract	1,050.0	8712	9,147,600	1739	Yes
3	Cogen 60kW-1 MW	Nat Gas	2002	6/24/1905	Net	60.0	4000	240,000	84	Yes
4	Cogen 60kW-1 MW	Nat Gas	5/17/1991	7/17/1991	Contract	150.0	500	75,000	NA	Yes

Record Request TEC-4 (Tr. 8, at 1555)

Please provide individual distribution company costs used to develop the avoided distribution cost of \$132.27 per kilowatt per year, as shown in Information Request DTE-6-3. Please provide this information at the secondary and high tension level, if available.

Response

Please refer to Attachment RR-TEC-4. The avoided cost information provided in the response to Information Request DTE-6-3 is not available at the high-tension level.

**NSTAR Electric**  
**Marginal Cost Summary**  
\$/kW-yr

<u>Company</u>	<u>Transm</u> <u>wo/loss</u>	<u>Losses</u> <u>@Sec</u>	<u>Transm</u> <u>w/Loss</u>	<u>Sales (mWh)</u>	<u>% Sales</u>
BECO(1)	15.62	1.222	19.09	13,156,541	73.1%
COM(2)	40.56	1.100	44.62	3,556,172	19.8%
<u>CAMB(2)</u>	<u>37.38</u>	<u>1.080</u>	<u>40.37</u>	<u>1,287,441</u>	<u>7.2%</u>
Wavg.	21.60	1.188	25.66	18,000,154	100.0%

<u>Company</u>	<u>Dist(Sec)</u> <u>wo/loss</u>	<u>Losses</u> <u>@Sec</u>	<u>Dist(Sec)</u> <u>w/Loss</u>	<u>Sales (mWh)</u>	<u>% Sales</u>
BECO(1)	138.06	1.222	168.71	13,156,541	73.1%
COM(2)	100.43	1.100	110.47	3,556,172	19.8%
<u>CAMB(2)</u>	<u>154.86</u>	<u>1.080</u>	<u>167.25</u>	<u>1,287,441</u>	<u>7.2%</u>
Wavg.	132.24	1.188	157.10	18,000,154	100.0%

Note (1) From BECO 1992 Marginal Cost Study escalated to year 2000 \$

Note (2) From BECO 1995 Marginal Cost Study escalated to year 2000 \$

Record Request TEC-5 (Tr. 8, at 1558)

Referring to the Company's diesel-fired synchronous generators on Martha's Vineyard, please provide the number of hours each of these units ran for each of the last two years and the number of hours that the submarine cables were out of service over the same two-year period.

Response

For the last two calendar years (from January 1, 2002 through December 31, 2003), the Mirant diesel generators at Oak Bluffs and West Tisbury on Martha's Vineyard were dispatched for the following number of hours:

West Tisbury Unit #1:	652 hours
West Tisbury Unit #2:	491 hours
Oak Bluffs Unit #1:	855 hours
Oak Bluffs Unit #2:	631 hours
Oak Bluffs Unit #3:	606 hours

The dispatch hours listed above include not only hours of dispatch because of cable outages, but also hours of dispatch by ISO-NE for bulk supply reasons.

For the last two calendar years, the number of hours that each of the four 23 kV submarine cables were out of service is as follows:

#97 Cable:	90 hours
#91 Cable:	2,986 hours
#99 Cable:	621 hours
#75 Cable:	128 hours

During this time period, cable failures were experienced on the #91 and #99 cables. The hours reported for the #97 and #75 cables, which did not fail, reflect either maintenance switching, loss of supply, or unavailability of data.